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FIGURE 1

Analysis of Patient Sera with Latex Agglutination Assay ELSIA

Group	Number of serum samples	Number positive by latex agglutination assay	Number positive by ELISA
MMN	8	6	5
CIDP	10	0	0
ALS	6	0	0
Anti-MAG Neuropathy	4	0	0
MFS	1	0	0
Normal	5	0	0

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FIGURE 2

Comparison of ELSIA and LATEX Agglutination Assay in Detection
of Anti-GM1 Antibodies in Sera of Patients with MMN

Patient No.	Anti-GM1 IgM Titer (ELISA) ¹	Latex Agglutination Assay ²
1	100,000	3
2	3,200	3
3	50,000	3
4	<800	Negative
5	800	1
6	1,600	2
7	<800	Negative
8	6,400	3

¹Titer for each specimen was assigned as the highest dilution in which the absorbance reading was 0.1 units greater than in the corresponding BSA coated wells.

²Results were scored from 1 to 3 according to the degree of agglutination.

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FIGURE 3

Latex Agglutination Assay in Detection of Anti-GM1 Antibodies in Sera of Patients with MMN.
Using Latex Particles Coated with Different Ratios of GM1 to GD 1a

Patient No.	Anti-GM1 IgM Titer (ELISA) ¹	Latex Agglutination Assay ²					
		A	B	C	D	E	F
1	100,000	3	2	2	2	1	Neg.
3	50,000	3	2	1	Neg.	Neg.	Neg.
6	1,600	2	Neg.	Neg.	Neg.	Neg.	Neg.
8	6,400	3	1	Neg.	Neg.	Neg.	Neg.

¹Titer for each specimen was assigned as the highest dilution in which the absorbance reading was 0.1 units greater than in the corresponding BSA coated wells.

²A: 100% GM1, 0% GD1a; B: 50% GM1, 50% GD1a; C: 12% GM1, 88% GD1a; D: 6% GM1, 94% GD1a; E: 1.5% GM1, 98.5% GD1a; F: 0.75% GM1, 99.25% GD1a; G: 0% GM1, 100% GD1a.

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FIGURE 4

Analysis of patient sera with ELISA and latex agglutination assay

Group	Number of Specimens	Number positive by ELISA	Number positive by agglutination assay
MMN	12	8	0
CIDP	10	0	0
ALS	6	0	0
Anti-MAG Neuropathy	4	0	4
GBS	13	13	7
Normal	10	0	0

FIGURE 5

Comparison of ELISA and latex agglutination assay for antiganglioside antibody-positive sera.

Patient No.	Group	ELISA Antibody Titer ^a GM1 GQ1b	Agglutination Assay
1	MMN	102,400	3
2	MMN	3,200	2
3	MMN	51,200	2
7	MMN	1,600	2
9	MMN	6,400	1
10	MMN	12,800	2
11	MMN	3,200	1
12	MMN	25,600	2
30	GBS	-	2
31	GBS	-	1
33	GBS	6,400	3
37	GBS	-	2
39	GBS	25,600	3
40	GBS(MFS variant)	-	2
41	GBS(MFS variant)	400 100	2

^a Titer for each specimen was assigned as the highest dilution in which the absorbance reading was 0.1 units greater than in the corresponding control wells.

^b Results were scored from 1 to 3 according to the degree of agglutination.